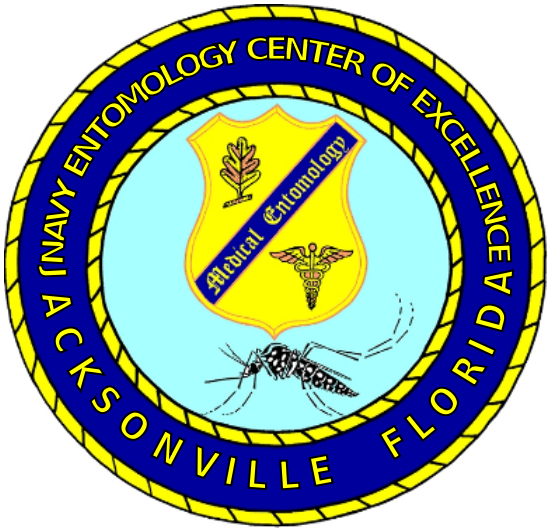


NAVY ENTOMOLOGY CENTER OF EXCELLENCE

US Navy Entomology

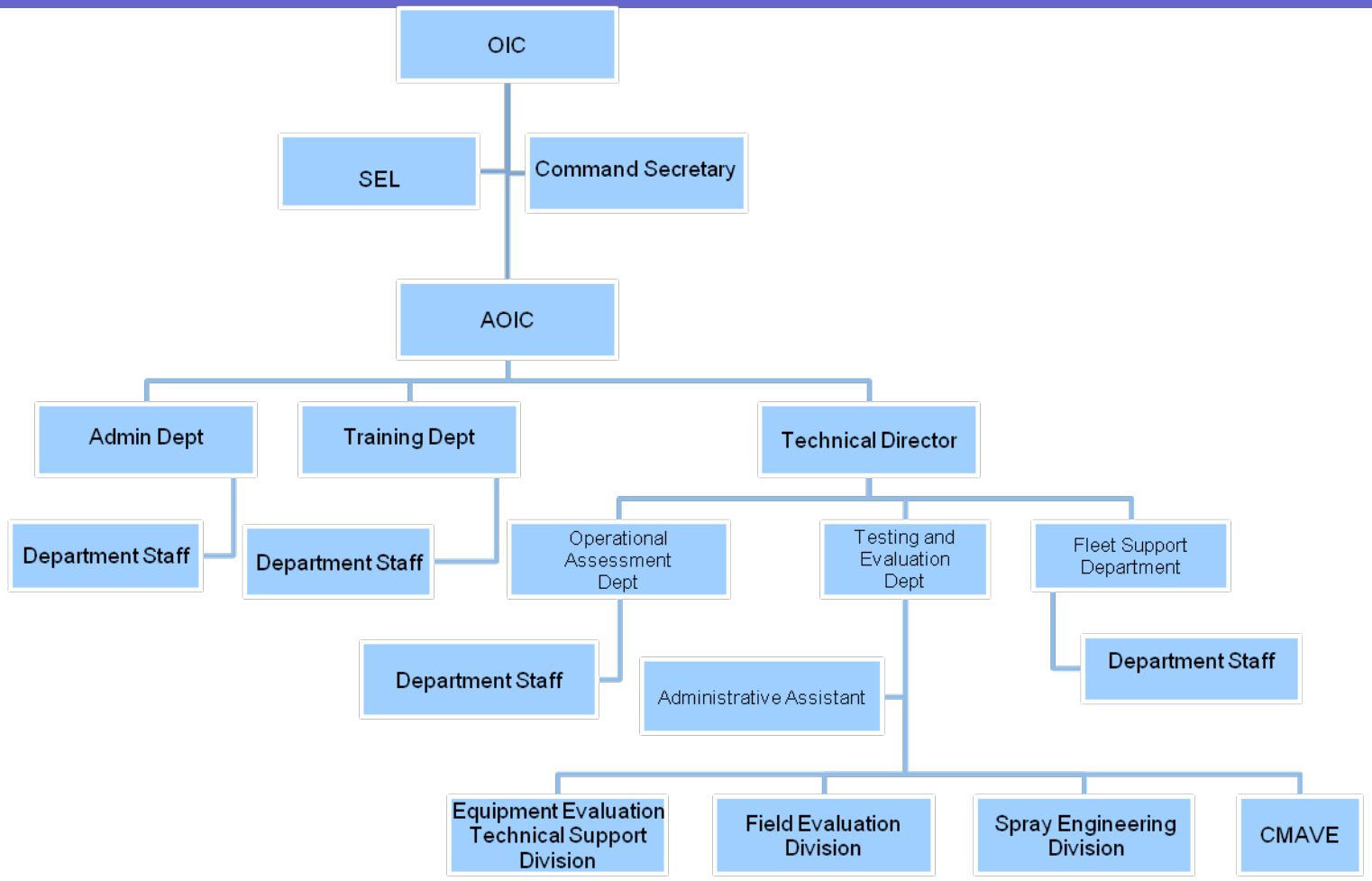
U.S. Navy Hospital Corps

Our beginnings……

Today – “Best in Class”

- **Only** Department of Defense activity dedicated to operational entomology
- **Center of Excellence** for the development and evaluation of **novel technologies** to better protect deployed war-fighters from blood feeding insects that transmit disease

Organization and Staffing

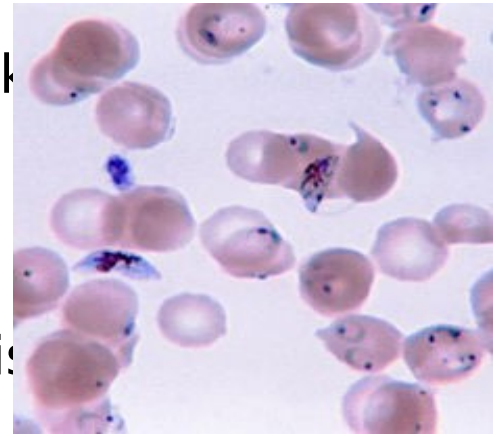


Readiness

- Marines Who Went to Liberia Come Down With Malaria – 2003
- Navy looks for answers after Seabee dies from malaria – 2010
- GIs With Malaria May Face Punishment – 2010
- Army statistics report from January 2003 through October 2004 there were 660 cases of leishmaniasis, 71 cases of malaria and 119 cases of assorted other illnesses vectored by arthropods in the CENTCOM AOR

Risk

Malaria
- 90 countries, 2.5 billion at risk
- 1-2 million fatalities annually



Dengue
- 100 countries, 2.5 billion at ri
- 50 million cases annually

Leishmaniasis
- 88 countries, 350 million at ri
- 2 million new cases annually

Fleet Support

- Navy and Marine Corps operational support
  - IA, HSAP
- Afloat and shore command support
- Training
  - Shipboard Pest Management Training Program Manager
  - DoD Pesticide Applicator Certification

Center of Excellence Technology Development and Evaluation

- Collaborations - “Force Multiplier”
  - USDA-ARS Center for Medical, Agricultural, and Veterinary Entomology – Gainesville, FL
  - USDA-ARS-APMRU Aerial Application Technology Unit – College Station, TX
  - U.S. Centers for Disease Control and Prevention
  - Army Medical Research Unit - Kenya
  - University of Florida
  - Rutgers University
  - Louisiana State University
  - Lee County Mosquito Control District, FL
  - Coachella Valley Mosquito and Vector Control District, CA

Accomplishments

- DoD’s Pesticide Application Equipment Testing and Evaluation Center
- Over 200 journal articles published
- Multiple application techniques evaluated for effectiveness
- Hundreds of compounds evaluated for insecticidal properties

Future

- **The Navy Entomology Center of Excellence will be recognized as a global center of choice for the evaluation of novel pesticide application equipment, technologies, and operational and pest management services for the war-fighter**
  - Continue to leverage collaborations through the Deployed War-fighters Protection (DWFP) Program to discover novel insecticides, vector control techniques and equipment